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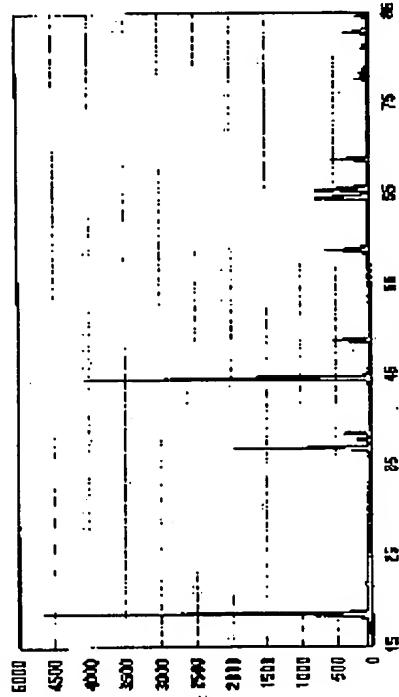
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(54) NONAQUEOUS ELECTROLYTE SECONDARY BATTERY

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a nonaqueous electrolyte secondary battery which is superior in low temperature discharging, high-rate discharging, and charging and discharging cycle, and which has high safety and inexpensive.

SOLUTION: This battery uses a complex oxide expressed as $LixMnaNibCocO_2$ having α -NaFeO₂-type crystal structure (wherein, a, b, and c express a range shown as a region surrounded by a straight line connecting 4 points consisting of point A (a, b, c)=(0.5, 0.5, 0), point B (0.45, 0.55, 0), point C (0.25, 0.35, 0.5), and point D (0.3, 0.3, 0.5), and $0.90 < x/(a+b+c) < 1.30$ in the 3-dimensional state chart of showing its relations) as a positive electrode, and the electrolyte salt contains LiN($C_nF_{2n+1}SO_2$)($C_mF_{2m+1}SO_2$) and preferably, and further contains LiPF₆ and/or LiBF₄.



LEGAL STATUS

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